



УНИВЕРЗИТЕТ У БАЊОЈ ЛУЦИ
UNIVERSITY OF BANJA LUKA
ПРИРОДНО-МАТЕМАТИЧКИ ФАКУЛТЕТ
FACULTY OF NATURAL SCIENCES AND MATHEMATICS



CHEMISTRY DEPARTMENT

FIRST CYCLE OF STUDY

Chemistry/Chemistry Education

Course name	Chromatographic Methods			
Course code	Course status	Semester	Hours of instruction	ECTS
1C16HOS1102	required	V	2+2	6
Teacher(s)	Prof. Mališa Antić PhD			

Prerequisite course(s)	Entry requirements
General Chemistry, Organic Chemistry 1, Organic Chemistry 2, Physical Chemistry 1 and Physical Chemistry 2	Attended courses

Course goals
Introduction to the basic principles of chromatographic methods. Defining terms used in the literature dedicated to chromatographic methods: chromatogram, peak, distribution coefficient, theoretical floor, intermolecular forces and interactions, etc. Criteria for the division of chromatographic methods and the division of chromatographic methods. Introduction to the most important chromatographic methods.

Learning outcomes
After passing the Chromatographic Methods exam, the student should have the knowledge to perform chromatographic analysis of the sample and independently process and present the results of the analysis.

Course content
Principles and division of chromatography. Planar chromatography. Column adsorption chromatography. Solid phase extraction. Gas chromatography. High performance liquid chromatography - HPLC.

Teaching methods
Lectures, seminar work, theoretical and laboratory exercises.

Books and other learning materials
1. V. Antić, M. Antić: Chromatography in food analysis (in Serbian), University of Belgrade, Faculty of Agriculture, Belgrade, 2014. 2. C. F. Poole: The Essence of Chromatography , Elsevier, Amsterdam, 2003. 3. J. M. Miller: Chromatography - Concepts and Contrasts , 2nd Edition, John Wiley & Sons, Inc., New Jersey, 2005.

Course activities and grading method
Seminary work. Oral exam.

Activity	10	Tests	30
		Final exam	60

Additional course notes
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Name of the teachers who prepared this form	Mališa Antić, Vesna Antić
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